

High Friction Surface Treatment

Field Experience

Todd Richardson PE
March 6, 2019

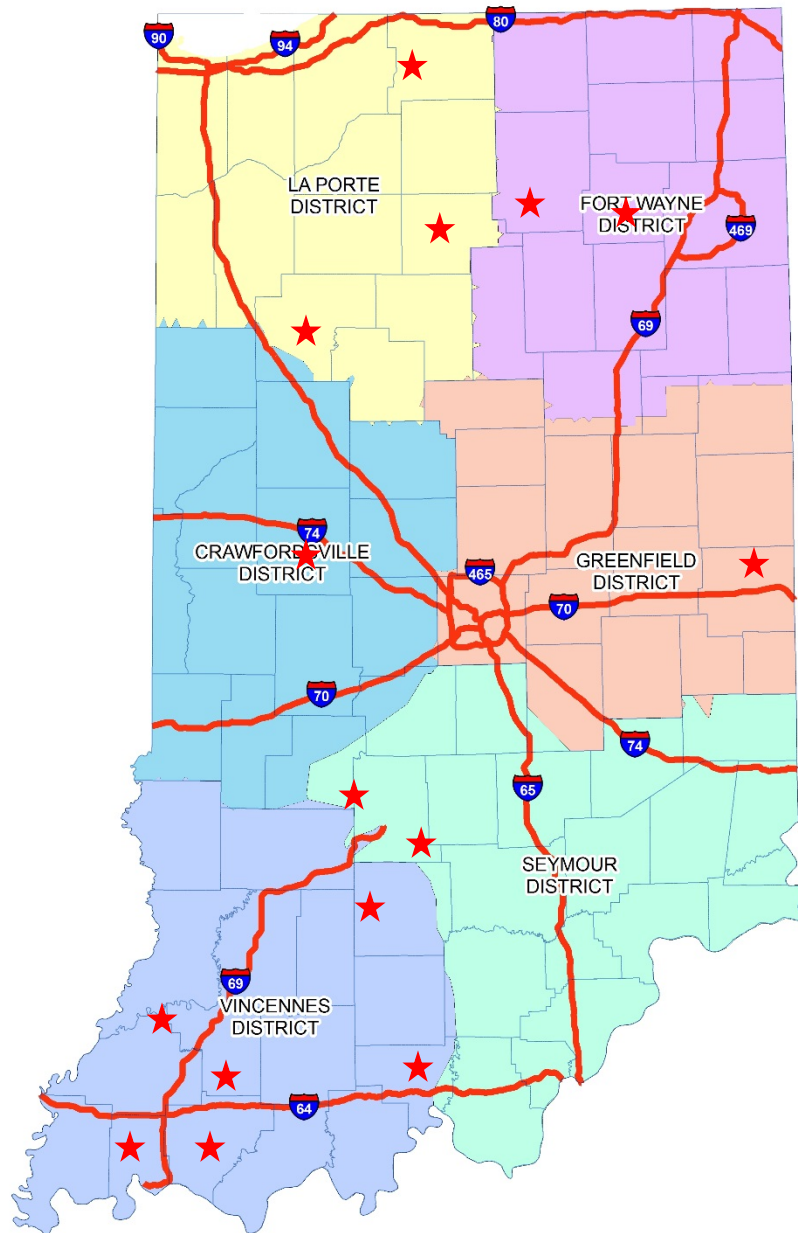
PURDUE ROAD SCHOOL **2019**



AMERICAN
STRUCTUREPOINT
INC.

INDOT Contract T-40130

- **Bid January 18, 2018**
- **Bid Amount \$1.12 Million**
- **23 Curves at 15 Locations throughout Indiana**
- **11 American Structurepoint staff were used at various times and locations**
- **RAM Construction Services was the prime contractor**
- **RAM utilized 2 crews to install the HFST**
- **Final Completion November 6, 2018**
- **Final Construction Cost \$1.19 Million**



Patching



Milling, Scarification

- Milling was required when there was an existing chip and seal surface
- Milling was required at 6 additional locations that were not called out in the plans



Shot Blasting

- Shot blasting was required on HMA that had been placed within the past 30 days



Shot Blasting

- SR 32 and SR 47 in Crawfordsville



Final Preparation



Moisture Test

- A plastic sheet, 18 in by 18 in that is left taped in place for a minimum of two hours, shall be used to identify moisture in the pavement.



Protecting Pavement Markings



Equipment



Beginning of Project



Application of Epoxy



Application of Aggregate



HFST Process



Cure Time



Clean Up



Finished Product



Application Rates

- **Polymeric Resin Binder**
 - 3.5 sys/gal
- **Aggregate**
 - 11 - 15 lbs/sys

Questions

Michael Holowaty PE, INDOT – Manager, Office of Traffic Safety

Rick Drumm PE, FHWA – Safety Engineer

Shuo Li PhD, PE, INDOT – Traffic Safety and Pavement Friction Engineer

Joe Bruno PE, INDOT – SR Engineer of Signals & Markings

Prakash Patel PE, INDOT – Manager, Traffic Design/Review Group

Todd Richardson PE, American Structurepoint – Project Engineer

Thank You for attending PURDUE ROAD SCHOOL 2019